

Fall 2001 – Vol. 7, Number 1

# Newsletter

F.L. Smithe Machine Co. Inc.  
899 Old Route 220 North, P.O. Box 36, Duncansville, PA 16635



F.L. Smithe Machine Co., Inc.

## GENUINE Champion Replacement Parts

Owni ng F.L. Smithe envelope machinery provides you with the finest envelope converting equipment in the world. As a member of the “Smithe Family” you are supported by a sales and technical staff dedicated to keeping your envelope machine in peak operating condition.

Our experienced Parts Department Representatives have been highly trained to assist you whenever Genuine Champion Replacement Parts are needed. With over

35,000 different parts in our spare parts inventory, your needs can usually be met with next-day delivery. For special and low-usage parts, our manufacturing department can make the needed part quickly and efficiently.

When highly technical questions or electrical assistance is needed, your call can be transferred directly to our Service Department for help by our trained staff of Service Engineers.

Our #1 goal is to keep your machine running efficiently. If a machine is down, we will do everything possible to expedite your order to get your machine up and running.

At F.L. Smithe, we realize that your business is more than just making envelopes, it's about making money.



**Genuine Champion Replacement Parts give you guaranteed performance at competitive prices!**

### **When you purchase F.L. Smithe Envelope Machinery**

***you have chosen the best. In addition to your machine purchase, you also receive a multitude of lifetime services that come with the ownership of a Champion Envelope Machine.***

- Free technical advice offered by our team of Technical Support Engineers
- Periodic Newsletters on new developments, attachments and operating tips
- Same-day or Next-day shipment on over 95% of parts orders
- Instruction Manuals and Parts Books available for every F.L. Smithe machine
- Assistance in identifying the correct part needed for your specific machine
- Parts and Service Department available by phone, fax and Email
- Field service provided by our staff of highly trained service technicians
- On-line communication and remote programming of Smithe's latest systems
- On-site manufacturing of all Genuine Champion Replacement Parts
- Genuine F.L. Smithe Parts manufactured to original design and material specifications

Price is the only thing aftermarket vendors offer. F.L. Smithe Machine Co. gives you competitive prices on Genuine Champion Replacement Parts, plus Technical Support, Service, Innovation and Knowledge gained from 98 years of dedication to the envelope industry.

Don't compromise the performance of your equipment by using counterfeit parts. Remember that F.L. Smithe consistently reinvests its profits in research and development to produce new more productive envelope machine designs....”Can other parts suppliers say the same?” Stay with the original,

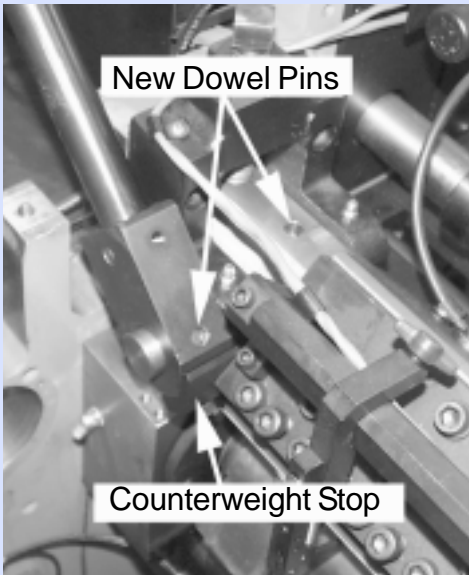
**GENUINE Champion Replacement Parts.**

***We Want  
Your Parts  
Business***

See us online at [www.flsmithe.com](http://www.flsmithe.com)

# IMPORTANT SAFETY RECOMMENDATION

## WA, RO and MO Cut Off Bridge Counterweight Modification



*This photo shows the WA counterweight bracket*

The F.L. Smithe Machine Co. **highly recommends** that all WA, RO and MO cut off bridge counterweights be modified to improve the safety of the bridge in the up-lifted position. This modification includes the replacement of the dowel pins in the counterweight support bracket and the bridge pivot shaft with new pins.

For additional protection, a counterweight stop plate is mounted to the counterweight support bracket on the WA and MOW units. On the RO a counterweight stop clamp is used.

These kits are being supplied at **no charge**.

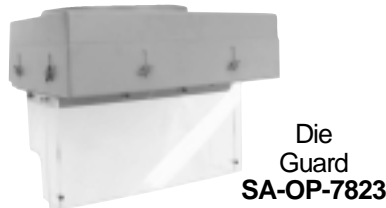
■ **For the WA:** this feature is standard on units Serial No. 5240, 5249, 5251 and up. To order, please specify **WA Special Order File 616** and **Instruction 69IV**.

■ **For the RO:** this feature is standard on units after Serial No. 5239. To order, please specify **RO Special Order File M90** and **Instruction 77CK**.

■ **For the MOW:** this feature is standard on units after Serial No. 4758. To order, please specify **MOW Special Order File 235** and **Instruction 42EF**.

## Is Your OP OSHA Compliant?

An OSHA compliant Two Handed Anti-Tie Down Start System has been developed for the existing Hand-fed Window Punch Press, Model: OP. This system provides further protection for the operator from inadvertent contact with the die during the down stroke. Included in this kit is the Dual Pushbutton Start assembly, the actuator air cylinder and control valve **OP Special Order File M3**. To be OSHA compliant a guard **SA-OP-7823** must also be ordered and installed.



The F.L. Smithe Machine Co. urges all owners of the OP press to order and install this very important OSHA required safety system.

Other guards, which are **highly recommended**, are the Web Feed Ratchet Guards

**OP-1244** & **OP-1249**, Web Feed Roller Guard **OP-1248**, Flywheel Guard **OP-1250** and the Slider Mechanism Guard **OP-1251**.

## OPERATOR SAFETY Guard for the RA H.S.P. Unit

The F.L. Smithe Machine Co. **highly recommends** that all envelope factories with RA High Speed Patchers install a newly developed HSP safety guard. This Plexiglas guard is mounted on the operator side of the HSP unit and is designed to protect the operator or adjuster from inadvertent contact with the patcher transport mechanism (from the operator side of the machine).

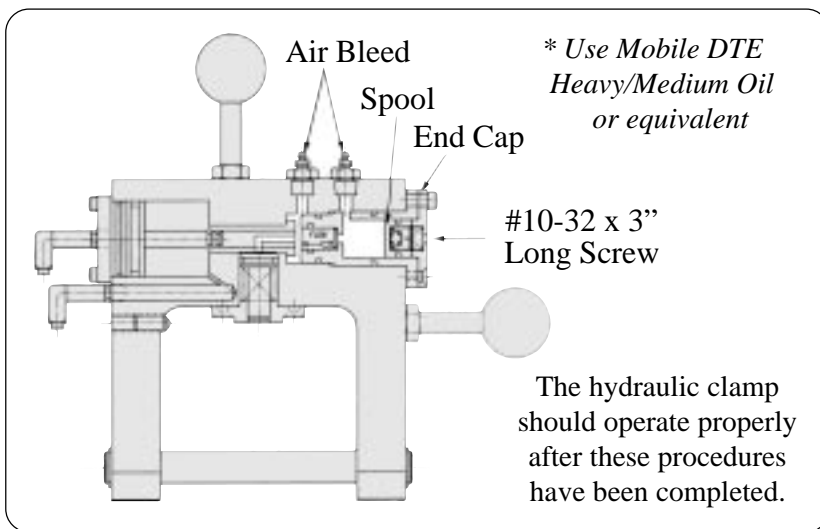


This guard is standard on all RA HSP units Serial No. 5499-up. To order it for Patchers Serial No. up to 5498, please specify **RA Special Order File 320** and **Instruction 69IW**.

## RA Combination 9 & 10 and SW Hydraulic Clamp Maintenance

If your Ultra Speed Patcher hydraulic clamp is not operating properly, the spool chamber may be lacking sufficient oil. To replenish this oil, follow this procedure:

1. Remove the air bleeders.
2. Insert a #10-32 x 3" Screw through the end cap and thread it into the spool.
3. Slowly pull the spool with the #10-32 screw while adding oil\* to the holes from where the air bleeders were removed, working the air bubbles from the holes as you slowly move the spool outward.
4. When all the oil has been added and the spool is fully retracted and all the air bubbles are removed, reinstall the air bleeders and remove the #10-32 screw.



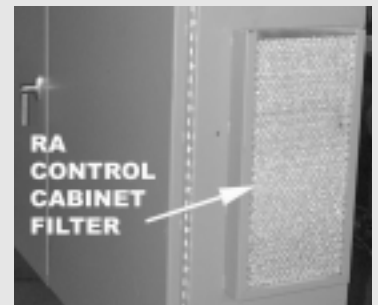
## Dealing With Control Cabinet Dust

Keeping the control cabinets clean is an important part of any maintenance program; however, the cabinet's exterior may get more attention than the interior.

It should be noted that most F.L. Smithe control cabinet doors are sealed to reduce the amount of dust that can enter and accumulate inside the cabinet. Opening the doors frequently or leaving the doors open for long periods of time will subject the electrical components to airborne dust common in paper converting plants.

The SLE, SR and SW control cabinets are equipped with air conditioners that circulate air inside the cabinet when the doors are closed. The BOE, RA and RO Cabinets are cooled with external air through a filter. Any accumulation of paper dust on the inside bottom of these control cabinets must be carefully vacuumed out and the cabinet filters must be cleaned on a monthly basis. This will reduce the amount of dust within the cabinet that ultimately accumulates on the electrical components. Please note that we are recommending vacuuming only the bottom of the inside of the cabinet and **not** the components above. These components are too sensitive for this type of cleaning and must **only** be cleaned by an authorized electrical technician.

The SLE, SR and SW control cabinet air conditioner filters must be cleaned monthly.



A filter coating lubricant (F.L. Smithe part No. **10.02.884.00.00**) is recommended for use on the cabinet filters after each monthly cleaning. This coating will enhance the filters ability to collect finer dust particles.

## BOE/SLE Vacuum Table Belt MATERIAL CHANGE

All BOE/SLE vacuum table belts have been redesigned to improve wear characteristics and product transfer capabilities. Even though the belt materials are essentially the same as previous belts, they are constructed to be slightly more elastic and the overall belt lengths have been changed to maximize the belt tensioning range, thereby extending belt life.

**Reminder:** Use extra care when tensioning belts on all tables. Tensioning is accomplished from both sides of each

table and must be done equally. Belts should only be tensioned to the point at which all belts are driven in a production mode running envelopes. Over tensioning will result in damage to the machine.

We will be discontinuing the single spliceable belts for all material types. We have found it extremely difficult to splice single belts in the field that meet the critical length tolerance for matched sets. Only complete matched belt sets will be offered.

## SW Product Path Sensor Settings "Light Operate vs. Dark Operate"

There are two adjustment screws on every sensor used in the SW machine. Both are marked clearly under a protective cover. One represents whether the sensor is light operated (L.O.) or dark operated (D.O.) and the other is the sensitivity gain setting. Both are set in the F.L. Smithe factory during initial machine trials. The sensor will not function correctly if this setting is changed.



### *The yellow "Banner" brand sensors must be set to Light Operate (L.O.)*

#### **Banner SM912 Series (Valu-Beam):**

These sensors are medium, almost square, yellow (convergent-beam) sensors that are used as web detectors in the unwind and print tower sections.

#### **Banner SM312 Series (Mini-Beam):**

These sensors are small, flat, rectangular yellow (convergent-beam or fiber optic) sensors that we use throughout the SW machine to detect the presence of paper (web or blanks).

#### **Banner Q45 Series:**

This is a medium-sized, almost square, rectangular sensor on the operator side before the cutoff knife aimed across the machine at a reflector on the drive side.

### *The gray "Omron" brand sensors must be set to Dark Operate (D.O.)*

#### **Omron E3X Series Sensors:**

These sensors are small flat rectangular fiber-optic sensors mounted on the inside of the drive side frame after the patcher section(s) to detect the presence of the glassine patch material on the web.

The sensitivity gain in very rare cases could require an adjustment. F.L. Smithe Technical Service should be contacted to discuss this as well as proper procedures for setting the gain in cases like sensor replacement.

## Run Scandisc & Defrag Your SW Operator Interface Terminal

### **SW machines Serial No. 4681 thru 5022:**

F.L. Smithe recommends qualified computer personnel should run "Scandisk" and "Defrag" every four to six months. Please contact the F.L. Smithe Technical Service Department for proper procedures.

SW Machines with Serial Numbers greater than 5022 **do not** require this action.



## SW Maintenance and Lubrication Schedule

This schedule furnishes two paper line diagrams: The first diagram locates the hand lubrication points on the machine with daily, weekly and monthly designations. Lubrication specifications are listed on this diagram. The second diagram lists the schedule for checking oil levels and when to change the oil in various locations on the machine. Also included in this chart are the air filter check points.



This Schedule is included in the SW Instruction Manual No. 85D, Section XIII.

For a copy of the SW Maintenance and Lubrication Instruction, Please ask our Parts Department for **Instruction No. 85E**.



*Serving the Envelope Industry since 1904*

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